

FUD Ternary Type Model-52



Features

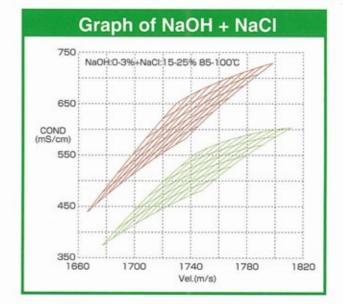
- ■This analyzer measures concentrations of two solutions in ternary liquid in real time and controls the concentrations systematically by Alarm output and Error output besides the output of the concentrations of two solutions.
- By measuring with ultrasonic waves, our analyzers are not influenced from the circumstances such as vibrations, noises, flow speeds, liquid colours, liquid dusts and so on. Also, our analyzers don't contaminate any solutions, so that it makes the maintenance very easy.
- Our transducers are made from various kinds of materials for good corrosion residence and durability. (SUS316, Tetlon-coated, Titanium, PFA and e.t.c. Please refer to the Specifications for more details.)

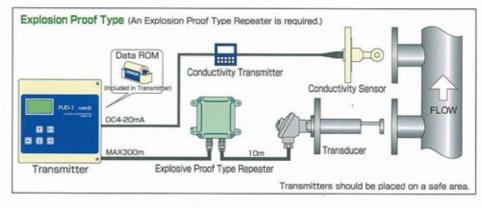
Applications

- Acid monitoring at steel cleaning process
- Etching rate control at etching process
- Concentration monitoring at cleaning process
 We have a lot of experiences including the above applications.
 (more than 500 data as of June '03)
- ■Polarizer(H3BO3+kl)



The ultrasonic velocity in a liquid has a characteristic that it is determined by the concentration and the temperature of the liquid, and this analyzer measures the temperature and the ultrasonic velocity of a liquid accurately. By using the data of the temperature, ultrasonic velocity and conductivity of a solution measured, the concentrations of two components in a ternary solution are caluculated from the data of the calibration curves recorded in a Data ROM. The transmitter has two tynes of Pauel Mount and Wall Mount Type has two tynes of with rain proof case and no rain proof case.



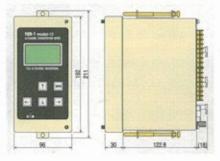


Specifications

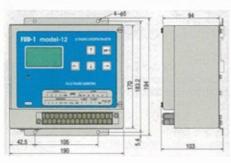
Name FUD-1	FUD-1 Model-12, Model-22(Explosion Proof Type)	FUD-1 Model-52, Model-62 (Explosion Proof Type)
Principle of measurement	Ultrasonic velocity and temperature	Ultrasonic velocity, temperature and conductivity
Display	LCD(concentration · temperature · velocity/various	LCD(concentration1 · concentration2 · temperature ·
	parameters)	velocity ·conductivity / various parameters)
Output	Analog DC4~20mA:(adjustable depend on a	Two Analogs DC4~20mA:(adjustable depend on a
	concentration figure)	concentration figure)
	Digital RS232C(concentration temperature	Digital RS232C(concentration 1 · concentration2 ·
	velocity·error code)×2	temperature-velocity-conductivity-error code) ×2
	Alarm high-highest-low-lowest- error	Two Alarms high-highest-low-lowest-error
Power	AC100~240V 50/60Hz, 30VA	AC100~240V 50/60Hz, 30VA
Construction	Panel Mount Type(DIN Standard Type) · Rack Type ·	Panel Mount Type(DIN Standard Type)
	Rack Type with a Rain-Proof Case	
Environment	Temp. 0~50°C, RH less than 85%	Temp. 0~50°C, RH less than 85%
	(No dew condensation)	(No dew condensation)
Temp. of liquid	0~100°C, -10~160°C(100°C span)(Option)	0~100°C, -10~160°C(100°C span)(Option)
Function	Output setting, Alarm-output setting,	Output setting, Alarm-output setting,
	Average times setting, Offset and Gain setting,	Average times setting, Offset and Gain setting,
	Self-diagnosis-check, Fail Safe Mode,	Self-diagnosis-check, Fail Safe Mode,
	Auto Error Canceration Mode.	Auto Error Canceration Mode.
Option	RS485 Output(Alternative choice with RS232C.)	RS485 Output(Alternative choice with RS232C.)
	Temp. Output(DC4~20mA)	Temp. Output(DC4~20mA)
Channel	max.10ch.	max. 7ch.
Cable	10m(normal), Max. 300m	10m(normal), Max. 300m
	(A Repeater is required for more than 10m.)	(A Repeater is required for more than 10m.)
Explosion Proof Type Repeater	ExII BT4	ExII BT4
Transducer	EXII CT4	ExII CT4
Material of Transducer	SUS316(L), SUS304(L), Tetlon coated,	SUS316(L), SUS304(L), Teflon coated,
	Hasteroy, Titanium, Nickel, Tantalium,	Hasteroy, Titanium, Nickel, Tantalium,
	PFA, PTFE, PVC, PVDF, etc.	PFA, PTFE, PVC, PVDF, etc.

Dimension of Transmitter

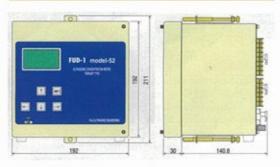
Panel Mount Type



Rack Type



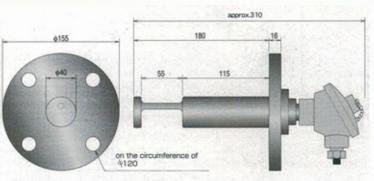
Panel Mount Type



Dimension of Transducer

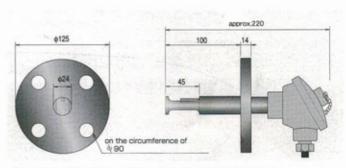
(The figure is defferent according to its material or spec.)

Flange JIS 10K 50A



The Flange Size is based on JIS B 2210 10K 50A FF.

Flange JIS10K 25A



The Flange Size is based on JIS B 2210 10K 25A FF.

FLI I TAILOR DEPARTMENT

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